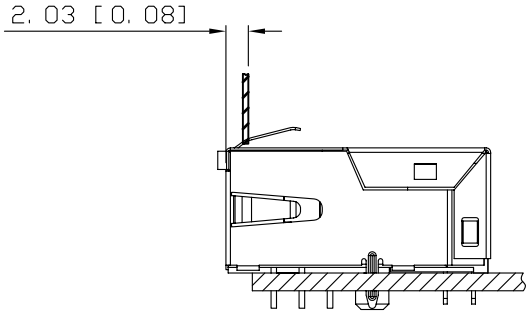
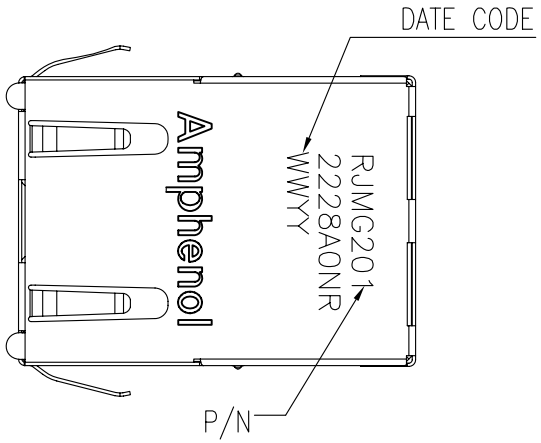
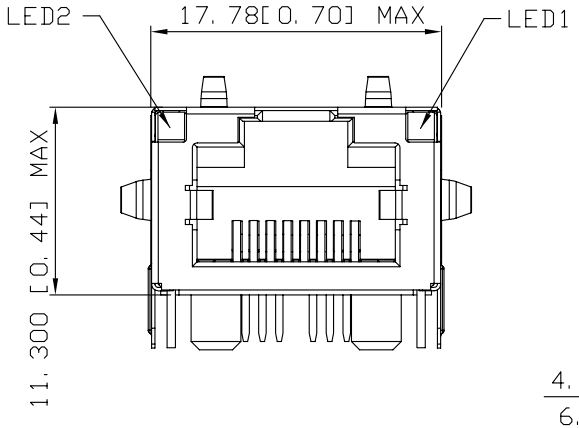
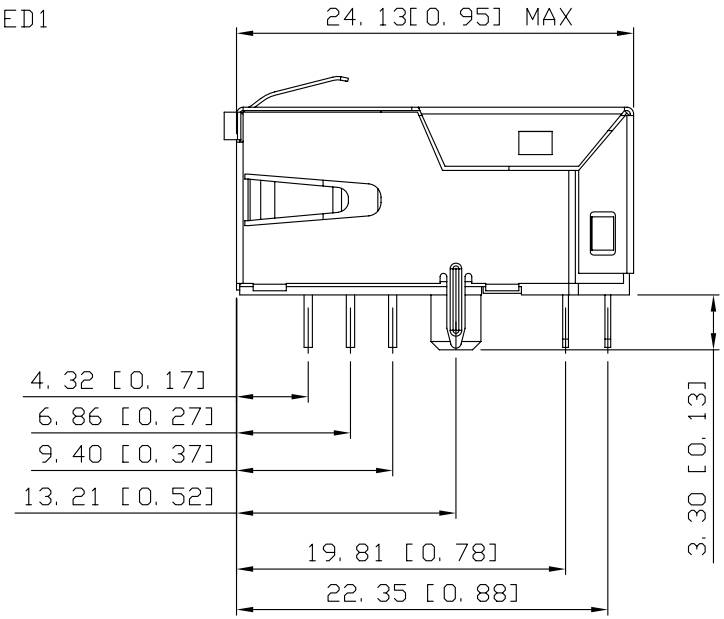
CUSTOMER DRAWING

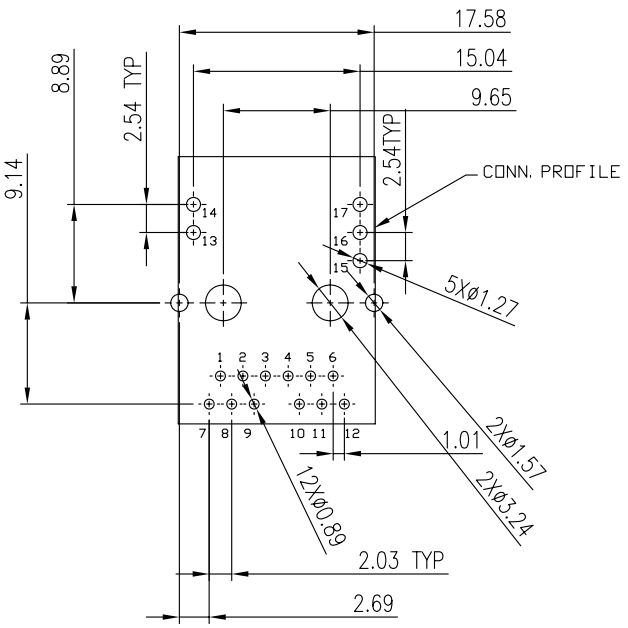
REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
AX1		RELEASE TO PRODUCTION	04/23/2008	Greg L.



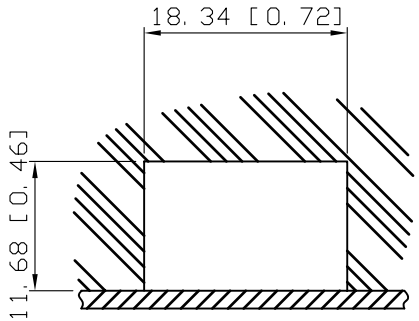








RECOMMENDED PCB LAYOUT
COMPONENT SIDE



SUGGESTION PANEL OPENING

TOLERANCE m/m	
x.	±0.30
x.x	±0.25
x.xx	±0.15
x.xxx	±0.08
ANGULAR	±1°
UNLESS OTHERWISE SPECIFIED	

APPROVALS		DATE
DRAWN	Stone Lee	04/23/08
CHECKED	Nealson Wang	04/23/08
APPROVED	Greg Loudermilk	04/23/08

UNIT: MM

TITLE: GIGABIT RJMag
ULTRA LOW PROFILE

Amphenol®
Amphenol Corporation

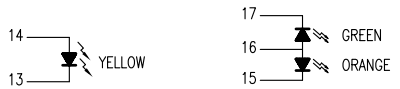
SCALE N.A. | SHEET 1 OF 3

SIZE	PART NO.	DRAWING NO.	REV.
A4	RJMG2012228A0NR	T363-RJMG2012228A0NR	AX1

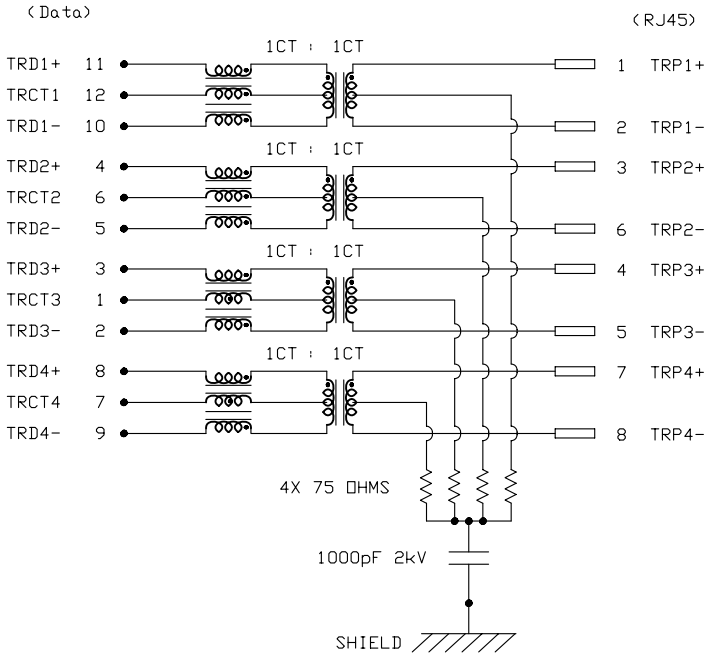
CUSTOMER DRAWING

REVISIONS

SYM	ECN No.	DESCRIPTION	DATE	APPROVED
AX1		RELEASE TO PRODUCTION	04/23/2008	Greg L.



BI-COLOR LED DETAIL (3 LEDS)



RJMG20122XX30X

ELECTRICAL SPECIFICATION(@25° C)

LED PERFORMANCE

PARAMETER	SINGLE COLOUR	BICOLOUR		UNITS
	YELLOW OR GREEN	GREEN	ORANGE	
FORWARD CURRENT IF MAX	30	30		mA
REVERSE CURRENT IR MAX	10	10		uA
REVERSE VOLTAGE VR MAX	-5	-5		V
T OPERATURE TOP	-40~+85	-40~+85		℃
T SOLDERINGTURE TS	260+/-5	260+/-5		℃
POWER DISS. Pd	100	100		mW
INTENSITY Iv	40	20	25	MCD
PEAK WAVELENTH	585	565	605	nM
FORWARD VOLTAGE TYP	2.1	2.2	2.0	V
FORWARD VOLTAGE MAX	2.6	2.6	2.6	V

CONNECTOR PERFORMANCE

PARAMETER	LIMITS (MAX. OR MIN.)	FREQUENCY RANGE/ TEST CONDITIONS
INSERTION LOSS (RX/TX)	-1.0dB MAX. -1.2dB MAX.	0.1-100 MHz 100-125 MHz
RETURN LOSS (RX/TX)	-16dB MIN. -10+20 log(f/80MHz)dB MIN.	0.5-40 MHz 40-100 MHz
CM-CM REJECTION	-30dB MIN.	100KHz-100MHz
CM-DM REJECTION	-35dB MIN.	100KHz-100MHz
CROSSTALK ISOLATION (RX/TX)	-30+20 log(f/100MHz)dB MIN.	100KHz-100MHz
HIPOT (ISOLATION)	1.5kVrms MIN.	60S
OCL	350uH MIN.	100KHz 100mV 8mA
TURN RATIO	1:1±5%	

TOLERANCE m/m	
x.	±0.30
x.x	±0.25
x.xx	±0.15
x.xxx	±0.08
ANGULAR	±1°
UNLESS OTHERWISE SPECIFIED	

APPROVALS	DATE
DRAWN Stone Lee	04/23/08
CHECKED Nealson Wang	04/23/08
APPROVED Greg Loudermilk	04/23/08

UNIT: MM

TITLE: GIGABIT RJMag ULTRA LOW PROFILE

Amphenol®
Amphenol Corporation

SCALE N.A. SHEET 2 OF 3

SIZE	PART NO.	DRAWING NO.	REV.
A4	RJMG2012228A0NR	T363-RJMG2012228A0NR	AX1

CUSTOMER DRAWING

REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	APPROVED
AX1		RELEASE TO PRODUCTION	04/23/2008	Greg L.

MATERIALS:

INSULATOR: THERMOPLASTIC POLYESTER,
COLOR: BLACK
FLAMMABILITY RATING UL 94V-0

CONTACTS (RJMAG): PHOSPHOR BRONZE
PLATING: SELECTIVE GOLD OVER MATING SURFACES.

METAL SHIELD: COPPER ALLOY T=0.2MM, NICKEL PLATED 50u" MIN
PRE-SOLDERING ON THE PCB GROUND TAB

MECHANICAL FEATURES:

SOLDERABILITY: MIL-STD-202,METHOD 208.

MATING/UNMATING FORCE: 2.1Kg MAX

RETENTION FORCE FOR RJ PORT: 5Kg FOR 1 MINUTE

PACKAGING: MEET FCC PART 68.500 REQUIREMENTS.

RJMG20122 X X A 0 X X

COMPLINACE CODE
R: RoHS Compliant

GOLD PLATING THICKNESS ON MATING SURFACE
L: Gold Flash,Copper Alloy Shield with Nickel 50u inches
M: Gold 15u Inches, Copper Alloy Shield with Nickel 50u inches
N: Gold 30u Inches, Copper Alloy Shield with Nickel 50u inches

LED1 (RIGHT SIDE)
0: Without LED
2: Yellow
8: Bi-color Green/Orange(3 leds)

LED2 (LEFT SIDE) SEE LED1 OPTIONS

TERMINATION OPTIONS
A: 4*75R,1000pf 8cores tansformer data pin side and with GND wire

ENVIRONMENTAL

OPERATING TEMPERATURE:0°C TO +70°C.

STORAGE TEMPERATURE:-40°C TO +105°C.

WAVE SOLDERING PEAK TEMPERATURE: 260° MAX 10 SECONDS

ALTITUDE OPERATING RANGE: SEA LEVEL TO 3000m

Humidity: per MIL-STD-1344A,method 1002.1

Thermal Shock: per MIL-STD-1344A,method 1003.1, test condition A

Vibration: per MIL-STD-1344A,method 2005.1, test condition Ⅱ

Mechanical Shock: per MIL-STD-1344A,method 2004.1, test condition C

Salt Spray: 24 hours per MIL-STD-1344A,method 1001.1, test condition B

TOLERANCE m/m	
x.	±0.30
x.x	±0.25
x.xx	±0.15
x.xxx	±0.08
ANGULAR	±1°
UNLESS OTHERWISE SPECIFIED	

APPROVALS	DATE
DRAWN Stone Lee	04/23/08
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UNIT MM

TITLE
GIGABIT RJMag
ULTRA LOW PROFILE

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SCALE N.A. SHEET 3 OF 3

SIZE	PART NO.	DRAWING NO.	REV.
A4	RJMG2012228A0NR	T363-RJMG2012228A0NR	AX1